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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/813,031	03/31/2004	Hiroki Goko	030712-36	3838
78198 7590 04/28/2009 Studebaker & Brackett PC 1890 Preston White Drive Suite 105 Reston, VA 20191				
EXAMINER				
MEMULA, SURESH				
ART UNIT		PAPER NUMBER		
2825				
MAIL DATE		DELIVERY MODE		
04/28/2009		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/813,031

Applicant(s)

GOKO ET AL.

Examiner

SURESH MEMULA

Art Unit

2825

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 January 2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 31 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-8508)
- Paper No(s)/Mail Date _____

- 4) ☐ Interview Summary (PTO-413)
- Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

This FINAL office action is a response to the amendments and remarks received on 01/13/2009. Pursuant to Applicant's amendments, the prior art rejections under Hathaway are withdrawn. However, in view of the newly considered art detailed below, this application is not in condition for allowance. Claims 1-5 are pending.

Claim Objections

1. In claim 1, at line 14: replace "integrated circuit." with "integrated circuit, and wherein at least one of the first, second, or third steps utilizes an EDA system."; in order to positively tie-in the apparatus aiding in performing the method. Support for this amendment may be found in ¶¶39-40 of the instant patent publication application (2005/0120318).

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. **Claims 1-5 are rejected under 35 U.S.C. 102(e)** as being anticipated by US Pub. No. 2004/0230933 to Weaver, Jr. et al. (Hereinafter: Weaver).

4. As to Claim 1,
a first step for determining a number of clocks different in delay amount (¶16; Fig. 1: element 4; e.g., clock tree build step), which are used for verification of a circuit design of the semiconductor integrated circuit upon the circuit design thereof (¶17-18), and determining delays in the clocks on the basis of pre-set conditions for constraints of timings (¶15-16; e.g., timing constraints are utilized in generation of the clock tree);
a second step for allocating clocks supplied to respective circuits (¶20; Fig. 1: element 6); and

a third step for optimizing timings on the basis of a list obtained by the timing constraint conditions and the clock allocation (§36; Fig. 1: element 10), and determining whether results of analyses of the respective timings correspond to violation of the constraints of timings (§36-37; Fig. 1: element 10, 14), wherein the optimization of the timings is repeated according to the constraint violation of the constraints of timings (§36-37; Fig. 1: element 16) and

the first, second, and third steps are performed prior to performing a layout design of the semiconductor integrated circuit (§5, 45; Fig. 1: element 18; e.g., Fig. 1's steps corresponding to elements 4, 6, 10, 14, and 16 are all performed before the layout step corresponding to element 18).

5. As to Claim 2, performing a layout design including: a fourth step for generating the clocks different in the delay amount for the verification of a layout design of the semiconductor integrated circuit (§5, 45; Fig. 1: element 20); a fifth step for adjusting skews for each of said clocks (§17, 36-37, 45; Fig. 1: element 10, 22); a sixth step for adjusting delays respectively included in the clocks to the determined clock delays upon the layout design (§17, 45; Fig. 1: element 10, 22), respectively; seventh step for making an adjustment to a layout that satisfies the timing constraint conditions upon the layout design (§5, 45; Fig. 1: element 10, 22) and determining whether analytical results of the respective timings correspond to the constraint violation (§45-46; Fig. 1: element 20), wherein the layout adjustment is repeated according to the constraint violation (§45-46; Fig. 1: element 22).

6. As to Claim 3, adjusting the delay of each of the clocks again according to the constraint violation when the constraint violation exists in the third step (§35-36; Fig. 1: element 6, 10).

7. As to Claim 4, a step for adjusting delays set for said clocks according to the constraint violation when the constraint violation occurs in the seventh step (§45-46; Fig. 1: element "done").

8. As to Claim 5, wherein adjusting the delays comprises adding a delay at a starting point where data is outputted (§36-37; Fig. 1: element 10), and determining the

clock delays according to the difference between the added value and the cycle of the clock (§136-37).

Response to Arguments

9. Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

11. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Suresh Memula whose telephone number is (571) 272-8046. The examiner can normally be reached on M-F 8am-4:30pm EST. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Chiang can be reached on (571) 272-7483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

13. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Suresh Memula/

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April 28, 2009

/Vuthe Siek/

Primary Examiner, Art Unit 2825